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TITLE : POLYETHYLENE COMPOSITION FOR APPLYING STEEL PIPE

ABSTRACT : PROBLEM TO BE SOLVED: To obtain a polyethylene composition for applying steel pipe, excellent in low-temperature physical property and environmental stress cracking resistance (ESCR) and improved in penetration at high temperature.

SOLUTION: This polyethylene composition for applying steel pipe contains 60-90wt.% linear low density polyethylene having 0.1-1.5e/10 min melt index and $\geq 1,000$ hr environmental stress cracking resistance (ESCR) and $\geq 200\%$ tensile elongation at break at -45°C and 10-40 wt.% high density polyethylene having $\leq 1\text{g}/10$ min melt index, ≥ 50 fluidity ratio and $\geq 0.94\text{g}/\text{cm}^3$ density.

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